

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Assistant Commissioner for Patents United States Patent and Trademark

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Date of mailing (day/month/year)
24 September 1999 (24.09.99)

in its capacity as elected Office

International application No. PCT/US99/00419

Applicant's or agent's file reference 5368-PCT

International filing date (day/month/year) 08 January 1999 (08.01.99)

Priority date (day/month/year)
09 January 1998 (09.01.98)

Applicant

PETTIT, George, R. et al

1.	The designated Office is hereby notified of its election made:	
	X in the demand filed with the International Preliminary Examining Authority on:	
	99 August 1999 (09.08.99)	
	in a notice effecting later election filed with the International Bureau on:	
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2.	The election X was	i i
	was not	• •
	made before the expiration of 19 months from the priority date or, where Rule 32 applies Rule 32.2(b).	s, within the time limit under
		•

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland **Authorized officer**

Jean-Marie McAdams

Facsimile No.: (41-22) 740.14.35

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PATENT COOPERATION TREATY

PCT

REC'D 23	MAY 2000
WIPO	PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 5368-PCT	FOR FURTHER ACTIO	N See Notifi Preliminary	cation of Transmittal of International Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (d.	ay/month/year)	Priority date (day/month/year)		
PCT/US99/00419	08 JANUARY 1999		09 JANUARY 1998		
International Patent Classification (IPC) or national classification and IPC IPC(7): C07F 9/09 and US Cl.: 558/197, 207, 210, 215					
Applicant ARIZONA BOARD OF REGENTS, A BODY CORPORATE, ACTING ON BEHALF OF ARIZONA STATE UNIVERSITY					
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of sheets. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. 					
i `	tion 607 of the Administrat	tive instructions	ander the PC1).		
These annexes consist of a to	otal of sheets.				
3. This report contains indication	ns relating to the followir	ng items:			
I 👿 Basis of the repo	ort				
II Priority					
III Non-establishme	nt of report with regard to	o novelty, inven	tive step or industrial applicability		
IV Lack of unity of	invention				
V X Reasoned stateme	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents	s cited	4,			
VII Certain defects in	the international application	n			
! =	ons on the international app				
VIII Certain observation	IB on the membership app				
to.					
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Date of submission of the demand		Date of completion	on of this report		
09 AUGUST 1999		23 APRIL 20	00		
Name and mailing address of the IPEA		Authorized office	r A o C		
Commissioner of Patents and Trademarks Box PCT		JEAN F. VO	LLANO A (A)		
Washington, D.C. 20231	1	Telephone No.	(703) 308-1235		
Facsimile No. (703) 305-3230			<u>`</u>		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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International application No.

PCT/US99/00419

Novelty (N)			
	Ol.:		
3 64	Claims	1-8	Y
	Clams	9	No
Inventive Step (IS)	Claims	1-8	YI
	Claims	9	N
Industrial Applicability (IA)	OI :		
measura Applicatinty (IA)	Claims Claims		YI
		NONE	_ NO
citations and explanations (Rule 7	70.7)		
Claims 1-8 meet the criteria set out in DCT	A -41-1- 20(0) (0)	, because the prior art does not teach or fairly suggest the	
process for preparing combretastatin A-4 pr invention.	odugs and trans	, because the prior art does not teach or fairly suggest the combretastatin A-prodrugs by the method found in the in	e
Claim 9 lacks an inventive step under PCT A	Article 33(3) as t	being obvious over Pettit et al (US 4,996,237) in view of	Ъон
Pettit et al teaches the known comb	retastatin A-4 co	ompound as a useful compound which has biological activ	rcu
e.g., anti tumor activity).	· custatili A-4 (C	ompound as a useful compound which has biological activ	ity
Pettit et al teaches that the compoun	d has a phenoxy	y (i.e., Ph-OH) moiety as part of its structure.	
group in place of the hydroxy portion of the	molecule	d as a compretastatin A-prodrug which includes a phosph	onate
Pettit teaches that the phosphonate p	ortion is a salt v	which includes Group 1 metals (e.g., sodium or potassiur	
Immonia.		cloup I metals (e.g., sodium or potassiur	n) or
Pettit differs from the instant inventi However it would have been obvious			
f having a prodrug with similar characteristic	es and properties	iff is not a cesium salt. the Group 1 metal salts as a prodrug salt with the expects s as the compounds of Pettit, since Pettit teaches that the	ation
hosphonate salts of Group 1 are useful produ	rug compounds.	the teaches that the	
Claims 1-9 meet the criteria set out in PCT A	rticle 33(4), for	industrial applicability	
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DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US99/00419

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A. CLASSIFICATION OF SUBJECT MATTER IPC(6) :C07F 9/09						
IPC(6) :C07F 9/09 US CL :558/197, 207, 210, 215						
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIEI						
Minimum d	documentation searched (classification system follow	ed by classification sym	ibols)			
l .	558/197, 207, 210, 215		·			
Documenta	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
	data base consulted during the international search (name of data base and,	where practicable	, search terms used)		
C. DOC	CUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where a	ppropriate, of the releva	int passages	Relevant to claim No.		
A -	US 5,561,122 A (PETTIT) 01 Octob document, especially columns 1 and 2	per 1996 (01/10/96	6) see entire	1-8		
Y	· · · · · · · · · · · · · · · · · · ·		9			
Y	Database CAPLUS on STN, Chem At No. 94:197470, TANIGUCHI, M. et as prodrugs. Part 3. Synthesis and ev in vitro of 4-acetamidophenyl phosph Abstract, February 1981, 29(2), 577-	9				
Y	US 4,996,237 A (PETTIT et al.) 26 entire document, especially examples.	February 1991 (20	6/02/91) see	9		
Furthe	er documents are listed in the continuation of Box (See patent	family annex.			
A doo	erial estagories of cited documents: nument defining the general state of the art which is not considered so of particular relevance	GRID EDG DOUT	sublished after the inter- conflict with the appli- theory underlying the	mational filing date or priority cation but cited to understand invention		
L doc	tier document published on or after the international filing data nument which may throw doubts on priority claim(s) or which is d to establish the publication date of another citation or other	when the docum	or cannot be consider ent is taken alone	claimed invention cannot be ed to involve an inventive step		
	cial reason (as specified) ument referring to an oral disclosure, use, exhibition or other um	combined with o	DVOIVE EN INVENTIVE	claimed invention cannot be step when the document is documents, such combination at		
P document published prior to the international filing data but later than *&* document member of the same patent family						
Date of the actual completion of the international search Date of mailing of the international search report 2 4 MAR 1999						
Box PCT Washington,	ailing address of the ISA/US er of Patents and Trademarks D.C. 20231	JEAN F VOLLANO				
Facsimile No	o. (703) 305-3230	Telephone No. (703	3) 308-1235			

INTERNATIONAL SEARCH REPORT

International application No. PCT/US99/00419

B. FIELDS SEARCHED		•
Electronic data bases consulted	(Name of data base and	where practicable terms used):

APS, CAS ONLINE, BEILSTEIN, GMELIN, CASREACT search terms: phosphorylation, structure search, combrestestin, phosphate ester, prodrug, dibenzyl phosphite, diethylamido, phosphine, diisopropylamido phosphine, phenol